# TOPFIELD

# CRC-2400

User Guide

*High Definition*
*Digital Cable Receiver*
*Personal Video Recorder*
*CONAX Embedded*

DVB
Digital Video
Broadcasting

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# Chapter 1



# Introduction

The CRC-2400 digital receiver is fully compliant with the international Digital Video Broadcasting (DVB) standard, and thus is able to receive digital broadcasts of that standard.

**NOTE**

In general we equate a channel with a frequency. However, unlike analogue broadcasts, digital broadcasts are not all assigned to their own frequencies; instead, multiple television broadcasts are transmitted through a single frequency. The frequency in digital broadcasting is usually called transponder or multiplex. To reduce confusion in this manual, the word **service** is preferably used than **channel** as a term to indicate one television or radio broadcast.

## 1.1 Features

This digital receiver has the following features:

- Can store up to 2,000 television and radio services.
- Can create lists of your favourite services.

- Can view information about the current television or radio programme.
- Has an electronic programme guide that provides an overview of scheduled programmes.
- You can record one service while you are currently watching another.
- You can record many programmes using a built-in hard drive with large storage capacity.
- Time-shift is a special technical feature available on this digital receiver. You can pause a programme you are watching and resume it again at a later time. Then you can quickly go to any part of the current programme by fast forward or rewind search.
- If you have an external hard drive connected to the digital receiver via the USB port, you can record television programmes into it.
- You can play back video files of various formats including DivX.
- You can use various Web services including YouTube.

## 1.2 Controlling the digital receiver

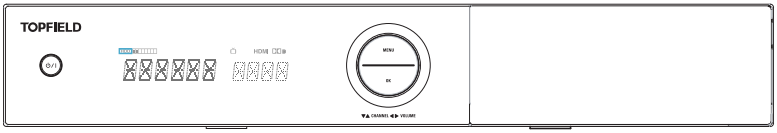
You can operate the digital receiver with the remote control or the buttons on the front panel.

**NOTE**

When the digital receiver is off but plugged into a wall socket, we say that it is in standby mode; on the other hand, when it is on, it is in active mode. Even when you are not using the digital receiver, you should keep it plugged into a wall socket to be in standby mode so that it can run timer events at any time.

### 1.2.1 Front panel

The front panel of the digital receiver has buttons to control the digital receiver, specific lights and a display to indicate its status. The following indicates what they mean.




⏻/❙ button switches the digital receiver between standby mode and active mode.

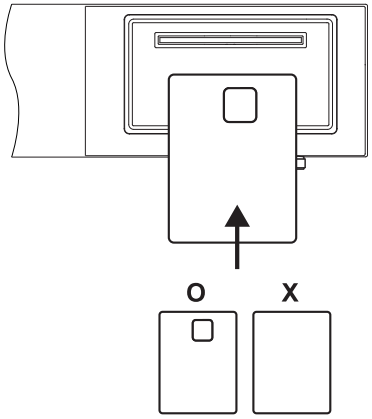
Front display shows the current time in standby mode, and displays the current service in active mode.

MENU button displays the main menu. It is also used to return to the previous menu from a submenu.

OK button displays the services list. See §5.2.1 for more details. It is also used to select a menu item.

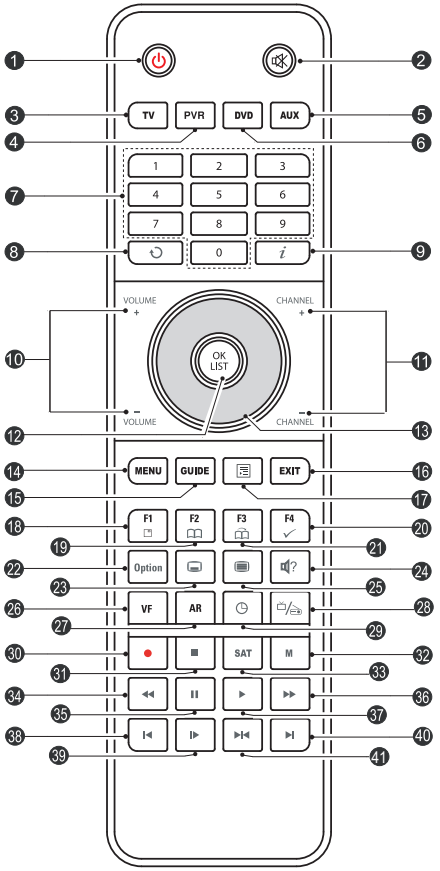
CHANNEL ▼, ▲ buttons switch to the previous or next service.

VOLUME ◀, ▶ buttons decrease or increase the volume.




You have to insert your subscription card into the front slot to watch pay services. When you insert the subscription card, the side on which the chip is mounted must face upward.

### 1.2.2 Remote control




**1** ⏻ button switches the digital receiver between standby mode and active mode.

**2** 🔇 mutes the sound. Press again to switch it back on.

**3** TV switches the remote control to television mode to operate your television.

**4** PVR switches the remote control to receiver mode to operate the digital receiver.

**5** AUX switches the remote control to operate your audio-video receiver.

**6** DVD switches the remote control to DVD mode to operate your DVD player.

**7** Numeric buttons are used to enter a service number for service change or to specify values for menu options.

**8** ↺ switches over between the current service and the previously viewed one.

**9** *i* displays the service information box. It is also used to display more information about a programme.

**10** VOLUME−, VOLUME+ buttons decrease or increase the volume.

**11** CHANNEL−, CHANNEL+ buttons switch to the previous or

next service.

**12** OK displays the services list. See §5.2.1 for more details. It is also used to select a menu item.

**13** Navigation buttons are used to navigate in menus or to change values for menu options.

**14** MENU displays the main menu. It is also used to return to the previous menu from a submenu.

**15** GUIDE displays the electronic programme guide.

**16** EXIT is used to exit a menu or to hide on-screen information.

**17** is used to display the list of recorded programmes that are stored in the internal hard drive. See §7.2 for more details.

**18** F1 has different functions per menu.

**19** F2 is used to make a bookmark on playback or time-shift.

**20** F4 has different functions per menu.

**21** F3 is used to jump to next bookmark position.

**22** Option has different functions per menu.

**23** is used to select a subtitle track.

**24** is used to select an audio track and a sound mode.

**25** displays teletext.

**26** VF changes video resolution. See §4.2.1 for more details.

**27** AR changes aspect ratio. See §4.2.2 for more details.

**28** switches over between television services and radio services.

**29** is used to set a sleep timer in 10 minute increments.

**30** is used to start recording.

**31** is used to stop playback, to stop recording, or to jump back to live television from time-shifted television.

**32** M switches the output of the TV SCART socket over between the digital receiver and the device connected to the VCR SCART socket. See §4.2.4 for more details.

**33** SAT is not used in this model.

**34** ◂◂ is used to start reverse playback. Subsequent presses increase the rewind speed.

**35** ⏸ pauses live television or playback of a recorded programme.

**36** ▸▸ is used to start fast forward playback. Subsequent presses increase the playback speed.

**37** ▸ resumes normal playback speed, or displays the progress bar for navigation on playback or time-shift. To play a recorded programme, see button **17**.

**38** ⏮ is used to jump back to the beginning of the recording on playback.

**39** ▸▮ is used to start slow motion playback. Subsequent presses change the playback speed.

**40** ⏭ is used to jump to the end of the recording on playback.

**41** ⏭⏮ has different functions per menu.

**NOTE**

When using the remote control, point it at the remote sensor on the front panel of the digital receiver.

## 1.3 Subscription card information

With this digital receiver, you can view pay services scrambled with the *CONAX* conditional access system. Probably you have a subscription card. If you would like to view information in detail about your subscription card, select the Information > Conditional Access menu. There you can also check the messages from the broadcasting operator.

# Chapter 2

# Setup



## 2.1 Unpacking

Before going any further, check that you have received the following items with the digital receiver.

- Remote control
- Two batteries for the remote control (AAA 1.5 V)
- One Composite cable (RCA cable)
- A copy of this user guide

**NOTE**

Accessories may vary according to your local area.

## 2.2 Safety precautions

Please read carefully the following safety precautions.

- The mains voltage must range between 90 and 250 volts. Check it before plugging the digital receiver to the wall socket. For the power consumption of the digital receiver, refer to Table 2.1.

- The wall socket should be near the equipment. Do not run an extension lead to the unit.
- The mains plug shall remain readily operable so that it can be removed easily to disconnect the power.
- The digital receiver shall not be exposed to dripping or splashing water, and no objects filled with liquids, such as vases, shall be placed on it.
- Do not expose the digital receiver to any moisture. The digital receiver is designed for indoor use only. Use dry cloth to clean the digital receiver.
- Place the digital receiver on a firm and level surface.
- Do not place the digital receiver close to heat emitting units or in direct sunlight, as this will impair cooling. Do not lay any objects such as magazines on the digital receiver. When placed in a cabinet, make sure there is a minimum space of 10 centimetres around it. For the physical specification of the digital receiver, refer to Table 2.2.
- Protect the power cord from being walked on or pinched. If the cord is damaged, do not use the digital receiver and get the cord replaced.
- Never open the digital receiver casing under any circumstances, or the warranty will be void.
- Refer all servicing to a qualified service technician.

**Table 2.1: Power specification**

| | |
|---|---|
| Input voltage | 90 to 250 V AC, 50/60 Hz |
| Power consumption | 47 W at maximum in active |
| | Under 1 W in passive standby |

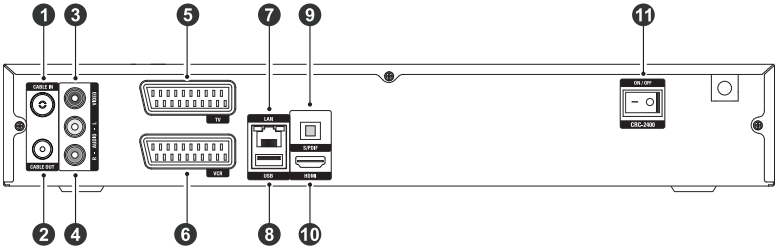
**Table 2.2: Physical specifications**

| | |
|---|---|
| Size | 380× 60× 265 mm |
| Weight | 3.1 kg |
| Operating temperature | 0 to 45 °C |
| Storage relative humidity | 5 to 90 % |

## 2.3 Rear panel connections

The CRC-2400 has a wide range of connections on the back.






Check what connections your television set has in comparison with the digital receiver.

**1** CABLE IN Cable broadcasting signal input socket

**2** CABLE OUT Cable broadcasting signal output socket through the CABLE IN socket for another digital receiver

**3** VIDEO Composite video output socket for the television set (yellow)

**4** AUDIO L/R Stereo audio output socket for the television set or the audio-video receiver (white/red)

**5** TV Audio and video output socket for the television set

**6** VCR Audio and video input/output socket for another device such as a video recorder

**7** LAN Local area network port

| | | |
|---|---|---|
| **8** | USB | USB port for firmware update and data transfer |
| **9** | S/PDIF | Digital audio output socket for the audio-video receiver |
| **10** | HDMI | Audio and video output socket for the high definition television set |
| **11** | ON/OFF | Power switch (You have to turn on this switch first to use this digital receiver.) |

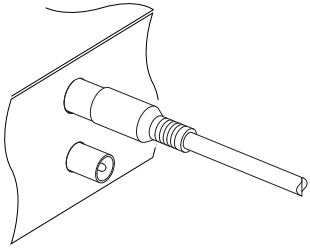
**Table 2.3: Connectors specifications**

| | |
|---|---|
| HDMI | High definition video output |
| | Left & right audio output |
| | Digital audio output |
| TV | CVBS/S-Video video output |
| | Left & right audio output |
| VCR | CVBS video output |
| | Left & right audio output |
| | CVBS/S-Video/RGB video input for bypass |
| | Left & right audio input for bypass |
| VIDEO | Composite video (CVBS) output |
| AUDIO | Left & right audio output |
| S/PDIF | Digital audio output |
| USB | 2.0 Host (5 V DC, 500 mA) |
| LAN | 10/100 Ethernet |

## 2.4 Connecting up your digital receiver

There are several ways to set up the digital receiver. Set up the digital receiver suitably to your television and other devices. If you have any problem with your setup or need help, contact your dealer.

### 2.4.1 Connecting to the broadcasting cable



Whatever sort of connection you have between the digital receiver and the television, you need to connect the digital receiver to the broadcasting cable so that it can receive digital television broadcasts. Connect the broadcasting cable to the CABLE IN connector. If you have another digital receiver, you may link it from the CABLE OUT connector.



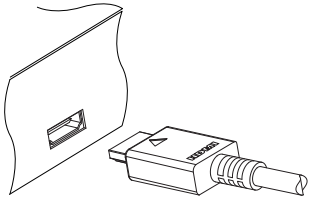
### 2.4.2 Connecting to your television set

For all the following connections of the digital receiver, we recommend you to use the first connector to get the best picture quality. If your television does not have a matching connector, then use the next connector in the following order for a better picture quality.

1. HDMI connector (HDMI)
2. SCART connector (TV)
3. Composite connector (VIDEO)

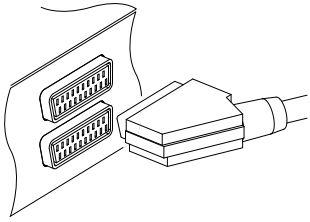
You should configure audio and video settings after connecting up the digital receiver. See §4.2 for a detailed description.

**To use the HDMI output**



If you have a high definition television set, you should use an HDMI cable for best results. Plug one end of the cable into the HDMI socket on the digital receiver, and plug the other end into the matching socket on your television. In this case, you do not have to make audio connection because it can output stereo audio or digital audio as well.

### To use the SCART output



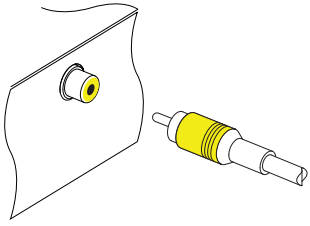
For best results with a standard television set, you should use a SCART cable. Plug one end of the cable into the TV socket on the digital receiver, and plug the other end into a free SCART socket on your television.

If you connect with a standard SCART cable, you do not have to make audio connection because it can output stereo audio as well. But if you use a conversion cable such as SCART-to-Component, then you have to make audio connection.

**NOTE**

You cannot view high definition video by means of the SCART output.

### To use the Composite video output

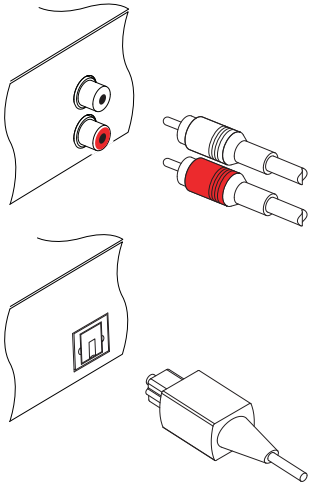


You need to obtain a Composite video cable (RCA cable) to use the Composite video output. Plug one end of the cable into the VIDEO (yellow) socket on the digital receiver, and plug the other end into the matching socket on your television.

**NOTE**

You cannot view high definition video by means of the Composite video output.

**To make the audio connection**



You need to obtain an audio cable (RCA cable) to link the audio connectors. Plug one ends of the cable into the AUDIO L (white) and AUDIO R (red) sockets on the digital receiver, and plug the other ends into the matching sockets on your television or audio-video receiver.

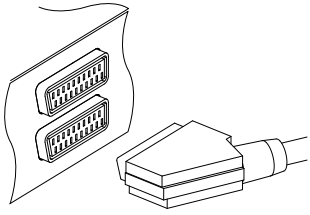
To enjoy Dolby Digital audio, your television or audio-video receiver must be able to decode Dolby Digital audio, and you need to obtain an S/PDIF cable.

Plug one end of the cable into the S/PDIF socket on the digital receiver, and plug the other end into the matching socket on your audio-video receiver.



### 2.4.3 Connecting to your video recorder

The digital receiver can also output video through an auxiliary SCART connector to another device such as a video recorder.



You need to obtain a SCART cable to link the auxiliary SCART connector. Plug one end of the cable into the VCR socket on the digital receiver, and plug the other end into the matching socket on your video recorder or suchlike.

## 2.5 Switching on for the first time

Now that you have your digital receiver connected, you should plug it into a wall socket. Ensure that your television set is turned on and on the correct video channel so that you will be able to see the display from the digital receiver.

Before switching on the digital receiver, you should insert batteries into the remote control. Open the battery compartment by removing the lid, and then insert the batteries observing the polarity, which is marked on the base of the battery compartment.

Press the ⏻ button on the top left corner on the remote control. In a little time, you may see a picture displaying a menu.

If you do not see a picture, try pressing the VF button on the remote control. If after several tries you still get no picture, check that the television is set to the correct input. If the picture is good, you can skip to §3.1 to search for available television and radio services. Otherwise, you may need to temporarily connect the Composite video connector (VIDEO) to your television set so that you can see the menu in order to configure the video settings.

**CAUTION**

If the digital receiver no longer reacts properly to the remote control commands, the batteries may be flat. Be sure to replace only with 1.5 V AAA size batteries, and observe the following precautions.

- Do not mix different types of batteries, or new and old batteries.
- Do not use rechargeable batteries.
- Do not recharge the old batteries.
- In order to avoid any risk of explosion, observe the polarities indicated inside the battery compartment.
- Do not subject to excessive heat such as the sun and fire.
- If you are not using the remote control for a long period of time, remove the batteries. The manufacturer accepts no liability for the damage resulting from leaking batteries.

- Batteries, including those which contain no heavy metals, may not be disposed with other household wastes. Please dispose of used batteries in an environmentally sound manner. Find out the legal regulations which apply in your area.

# Chapter 3

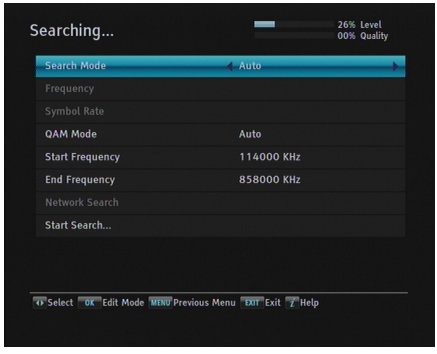
# Service Search

After connecting up the digital receiver, you will need to perform a service search.

**NOTE**

If there is no service stored, you will be not able to access all menus. A SERVICE is another name for a CHANNEL.

## 3.1 Searching for broadcasting services




To perform service search, select the Installation > Searching menu. You should see a screen like the left figure.

You should set the Search Mode option to Auto at the first service search after installing the digital receiver. The digital receiver will search all available services with the automatic search mode within the frequency range from the frequency of the Start Frequency option to the frequency of the End Frequency option. Symbol Rate stands for data transfer rate, and QAM is a form of modulation used in digital broadcasting. Broadcasting operators send their services in a symbol rate by a modulation method. Perhaps you do not have to specify the Symbol Rate and QAM Mode options since they are seldom changed. However, you should set the QAM Mode option to Auto for more certainty. You can specify the Start Frequency, End Frequency and Symbol Rate options with the numeric buttons if you want to change them.

To search only one frequency, set the Search Mode option to Manual and specify your desired frequency at the Frequency option with the numeric buttons.

It is most recommended that you should set the Search Mode option to Quick Scan. With this option, you can search every service rather quickly.

Um den Suchlauf zu starten, bewegen Sie sich zum Punkt Suchlauf starten und bestätigen Sie den Menüpunkt mit OK er Digitalreceiver beginnt nun mit dem Suchlauf und listet dabei die gefundenen Fernseh- und Radiosender auf. Je nach Belegung der Kanäle im Kabelnetz, kann es einige Zeit dauern, bevor die ersten Kanäle gefunden werden. Wenn der Suchlauf beendet ist, wird Ihnen angezeigt, wieviele Fernseh- und Radiosender gefunden wurden. Drücken Sie die OK Taste um die Sender zu speichern.

## 3.2 Resetting to factory settings

The digital receiver maintains the following data:

- Services list
- Favourite list

- Timer list
- Preference settings

You can reset all data of the digital receiver. Select the Installation > System Recovery > Factory Setting menu, and then you get asked for confirmation. With the choice of Yes, the services list, favourite list and timer list will all be cleared, and preference options will be reset to the manufacturer's factory settings.

**NOTE**

A factory reset will not delete any recorded programmes. However, you have to search services again after a factory reset.

## 3.3 Resetting to user settings

You can store your own data including the following:

- Services list
- Favourite lists
- Preference settings

Also you can restore them at any time.

To store your data, select the Installation > System Recovery > Store System Data menu, then you get asked for confirmation. If you select Yes, your data will be stored. Whenever you store your data, they are all overwritten.

To restore your data, select the Installation > System Recovery > Recover System Data menu, then you get asked for confirmation. With the choice of Yes, your data will be restored.

## 3.4 Clearing the services list

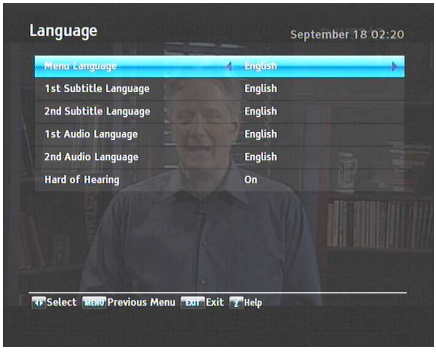
If you only want to clear the services list, select Installation > System Recovery > Reset Service List, then you get asked for confirmation. With the choice of Yes, the services list will be cleared. After this, you have to do service search again.

# Chapter 4

# Preference Settings



## 4.1 Language settings




You can select the language in which the menu will be displayed. In addition to that, you can select the language of audio track and of subtitle track. Select the Settings > Language menu. You should see a screen like the left figure.

### 4.1.1 Menu language

The digital receiver provides menus in several different languages. Set the Menu Language option to your desired language. Once you select a language, the menu will be immediately displayed in the selected language.

### 4.1.2 Subtitle language

Set the 1st Subtitle Language option and the 2nd Subtitle Language option to your desired languages. When you watch a programme, if the programme has a subtitle track of the language that is specified for the 1st Subtitle Language, it will be displayed. If the first language is not available but the second language is available, the subtitle of the second language will be displayed. If there is no available language, no subtitle will be displayed.

Apart from this setting, you can select a subtitle track with the [▭] button. See §5.2.5 for a detailed description.

### 4.1.3 Hard of Hearing

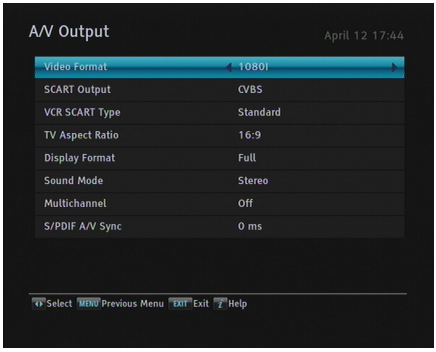
Some broadcasters may send a subtitle track dedicated to the hard-of-hearing. Even when a subtitle track or more is available, that subtitle track will be displayed prior to those you have specified for the 1st Subtitle Language and the 2nd Subtitle Language options if the Hard of Hearing option is set to On.

### 4.1.4 Audio language

Set the 1st Audio Language option and the 2nd Audio Language option to your desired languages. When you watch a programme, if the programme has an audio track of the language that is specified for the 1st Audio Language, it will be output. If the first language is not available but the second language is, the audio of the second language will be output.

Apart from this setting, you can select an audio track with the [?] button. See §5.2.4 for a detailed description.

## 4.2 Video and audio settings




You have to configure the video and audio settings appropriately for your television set and other devices. Select the Settings > A/V Output menu. You should see a screen like the left figure.

### 4.2.1 High definition television



The digital receiver supports various video resolutions from 576 to 1080. In general, a resolution of 720 or more is considered high definition. The higher the resolution is, the better the quality is. However, if your television set does not support high definition, you cannot enjoy high definition quality picture.

Set the Video Format option as you desire. If you set this option to 576P, the digital receiver will present even high definition programmes in resolution of 576. On the contrary, if you set it to 1080I, the digital receiver will present even standard definition programmes in resolution of 1080.

It is recommended to set it to Auto if you have a high definition television. With that setting the digital receiver will present a programme as it is without any resolution conversion. While watching television you can change the resolution with the VF button. Whenever you press it, the video resolution is changed in turn.

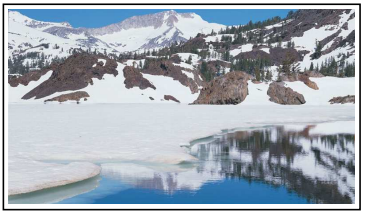
**NOTE**

You can enjoy only standard definition video with the following video outputs:

- Composite video output (VIDEO)
- SCART output (TV)

### 4.2.2 Television aspect ratio

If you have a wide-screen television, set the TV Aspect Ratio option to 16:9.



You can enjoy both wide-screen programmes and normal-screen programmes with your wide-screen television as the above figures show. To watch normal-screen programmes in full screen like the left figure, set the Display Format option to Full. Normal-screen pictures then will be inflated to fit to the width of the wide screen. Otherwise, to watch them in the original ratio like the right figure, set it to Center. If you have a normal-screen television, set the TV Aspect Ratio option to 4:3.

You cannot fully enjoy wide-screen programmes with your

normal-screen television as the above figures show. The left figure shows a normal picture displayed in the normal screen. To watch wide-screen programmes in the shape like the centre figure, set the Display Format option to Letter Box. Wide-screen pictures then will be reduced to fit to the width of the normal screen. Otherwise, to watch them in the shape like the right figure, set it to Center extract. Then wide-screen pictures will be cut out on the left and right sides equally to fit to the width of the normal screen.

### 4.2.3 Colour format

Through the TV SCART output, the digital receiver is able to output video in various colour formats. If you have the digital receiver linked to your television via this output, you should set the SCART Output option to your desired colour format.

If you have connected via the RCA socket labeled VIDEO on the back panel, you do not have to set this option because the digital receiver outputs CVBS video through that RCA output independently of the SCART output.

In general, it is known that the RGB colour format provides the best video quality but the CVBS colour format does the least. So RGB would be the most desirable option for this.

### 4.2.4 Another video device

You can have the digital receiver linked to another video device like a video recorder or a DVD player via the VCR SCART output. In this case, the digital receiver will operate differently depending on the setting of the VCR SCART Type option. If the option is set to Standard, the digital receiver will pass along the video from the video device to your television when it starts playback. But if the option is set to External A/V, the digital receiver will not pass the video automatically. You have to press the [M] button to pass it along. It is impossible for the digital receiver to record the video from the video

device since the digital receiver is just a bypass for the video recorder.

### 4.2.5 Audio mode

Basically, there are two audio sources as you can find two audio sockets on the back panel of the digital receiver. You can enjoy only one source or both of them in either stereo or mono. Set the Sound Mode option as you desire.

Apart from this setting, you can change the sound mode with the button. See §5.2.4 for a detailed description.

The digital receiver can output two types of digital audio signals via the S/PDIF output. One is an encoded signal, and the other is a decoded signal. If you have the digital receiver linked to your audio-video receiver via the S/PDIF output, you have to set the Digital Audio option to Off, which means that the digital receiver will output encoded Dolby Digital audio without decoding so that your audio-video receiver can decode it. Otherwise, set it to On, then the digital receiver will output decoded Dolby Digital audio, scaling it down to two channels.

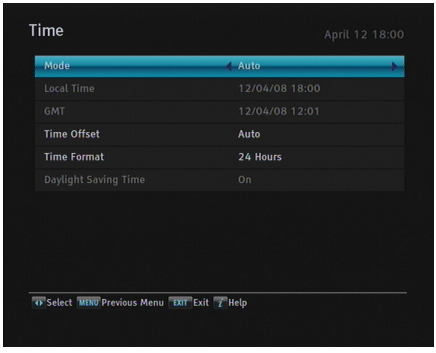
**NOTE**

Only if the service you are currently watching provides a Dolby Digital audio track, you can enjoy Dolby Digital sound.

If you feel that the audio from the S/PDIF output does not synchronise with video, you can straighten it by adjusting the value of the S/PDIF AV Sync option.

## 4.3 Local time setting

You should set your local time for timer events.




Select the Settings > Time menu. You should see a screen like the left figure. You can set the clock manually or use the time signal, Greenwich Mean Time (GMT), carried as part of the digital television broadcast. To use Greenwich Mean Time, take the following steps:

1. Set the Mode option to Auto, then the Time Offset option becomes enabled.
2. Set the Time Offset option to the time difference between your time zone and GMT referring to Table 4.1.
3. Make sure that your local time is correctly displayed on the Local Time item.

To set the local time manually, set the Mode option to Manual and enter your local time to the Local Time option with the numeric buttons. The time format is *day/month/year 24-hour:minute*. To change the time format to 12-hour format, set the Time Format option to 12 Hours.

If daylight saving time is observed in your state at the moment, set the Daylight Saving Time option to On.

**NOTE**

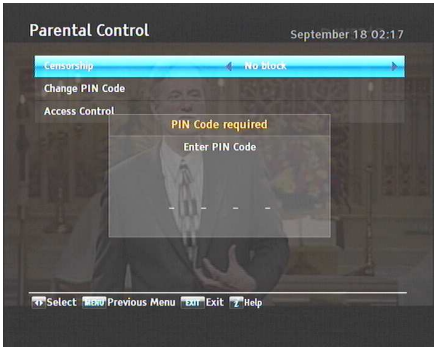
Daylight saving time adds one hour to the time when the option is set to On. When setting the time offset from Greenwich Mean Time, make sure that time offset does not include daylight saving time.

**Table 4.1: Time offset table**

| Time offset | City |
|---|---|
| GMT − 12:00 | Eniwetok, Kwajalein |
| GMT − 11:00 | Midway Island, Samoa |
| GMT − 10:00 | Hawaii |
| GMT − 09:00 | Alaska |
| GMT − 08:00 | Pacific Time US, Canada |
| GMT − 07:00 | Mountain Time US, Canada |
| GMT − 06:00 | Central Time US, Canada, Mexico City |
| GMT − 05:00 | Eastern Time US, Canada, Bogota, Lima |
| GMT − 04:00 | Atlantic Time Canada, La Paz |
| GMT − 03:30 | Newfoundland |
| GMT − 03:00 | Brazil, Georgetown, Buenos Aries |
| GMT − 02:00 | Mid-Atlantic |
| GMT − 01:00 | Azores, Cape Verde Islands |
| GMT | London, Lisbon, Casablanca |
| GMT + 1:00 | Paris, Brussels, Copenhagen, Madrid |
| GMT + 2:00 | South Africa, Kaliningrad |
| GMT + 3:00 | Baghdad, Riyadh, Moscow, St. Petersburg |
| GMT + 3:30 | Tehran |
| GMT + 4:00 | Abu Dhabi, Muscat, Baku, Tbilisi |
| GMT + 4:30 | Kabul |
| GMT + 5:00 | Ekaterinburg, Islamabad, Karachi, Tashkent |
| GMT + 5:30 | Bombay, Calcutta, Madras, New Delhi |
| GMT + 6:00 | Almaty, Dhaka, Colombo |
| GMT + 7:00 | Bangkok, Hanoi, Jakarta |
| GMT + 8:00 | Beijing, Perth, Singapore, Hong Kong |
| GMT + 9:00 | Tokyo, Seoul, Osaka, Sapporo, Yakutsk |
| GMT + 9:30 | Adelaide, Darwin |
| GMT + 10:00 | Eastern Australia, Guam, Vladivostok |
| GMT + 11:00 | Magadan, Solomon Islands, New Caledonia |
| GMT + 12:00 | Fiji, Auckland, Wellington, Kamchatka |

## 4.4 Parental control

In general, television programmes are classified according to the level of violence, nudity and language of their content. When you are watching a programme, you can check its programme classification on the information box. For the information box, see §5.2.3. You can prevent your children from watching specific programmes by specifying a maximum permissible level.




Select the Settings > Parental Control menu. You should see a screen like the left figure, and you will be asked your Personal Identification Number (PIN). The number is initially set to '0000' as default.

If you wish to block programmes for viewers aged 15 or above, set the Censorship option to 15 (age). Setting it to No block blocks no programme; on the other hand, setting it to Total block blocks every programme.



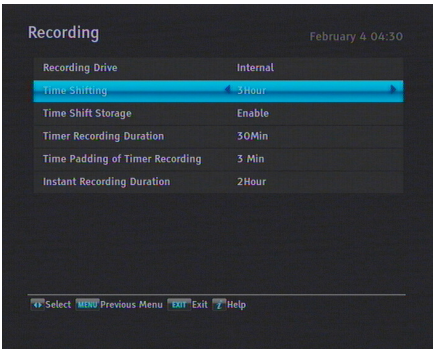
**NOTE**

If a programme has no rating information, your censorship setting will not take effect.

If anyone is trying to watch a programme that is of or above the censorship setting, the person has to enter the personal identification number to override. To change the number, select the Change PIN Code menu, then a box pops up, asking a new PIN. Enter a desired number twice for confirmation.

You can also restrict uses of some menus. Selecting the Access Control menu displays a list of menus that you can lock. If the Time item is set to Locked, you have to enter the PIN when accessing the Time menu. If you enter a wrong number, you cannot use the menu. To release a locked item, set it to Unlocked.

## 4.5 Options for recording




To set the options for recording, select the Settings > Recording menu. You should see a screen like the left figure.

To enable the time-shift function, you should set the Time Shifting option to anything other than Disable. The available range for this option is 30 minutes to 5 hours. You will have the latest of the current programme as long as the duration specified at this option.

You can record a programme into both an external and the built-in hard drive. If you want to record a programme into an external hard drive, set Recording Drive option to External; otherwise, set this option to Internal.

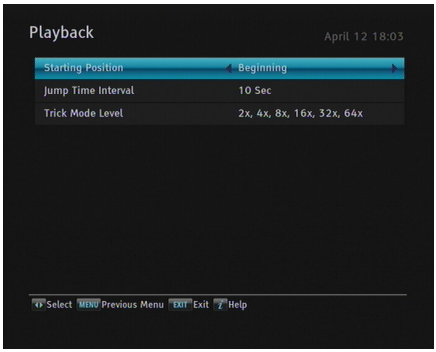
If you set the Time Shift Storage option to Enable, the time-shifted programme will be saved in the TimeShift folder of the hard drive.

You can set the duration of the timer recording. Set the Timer Recording Duration option as you desire. Its available range is 10 minutes to 3 hours.

Time padding is the feature of adding extra recording time to the beginning or end of a programme, so that you do not miss any part of the programme. Set the Time Padding of Timer Recording option as you desire.

You can adjust the duration of the instant recording. Set the Instant Recording Duration option as you desire. Its available range is 30 minutes to 5 hours.

## 4.6 Options for playback




To set the options for playback, select the Settings > Playback menu. You should see a screen like the left figure.

If you want to play back a recorded file from beginning, set Starting Position option to Beginning. To play back a recorded file from the part where you were watching, set this option to Continuing.

To make a descrambled copy from a scrambled recording, set the Descramble Mode option to Auto Recording; otherwise, set this option to Normal.

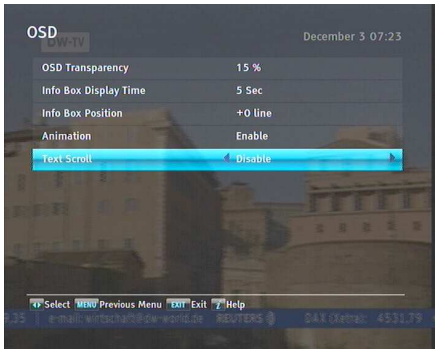
You can adjust the jump interval that is for playback. Set the Jump Time Interval option as you desire. Its available range is 10 seconds to 3 minutes.

If you want to enjoy more levels of playback speed, set the Trick Mode Level option to 2x, 4x, 8x, 16x, 32x, 64x; otherwise, set it to 4x, 16x, 64x.

**NOTE**

You can enjoy video files such as DivX with the digital receiver. However, the above options might not be effective depending on the video files to be played. For detailed description on how to play back a video file, refer to §8.5.

## 4.7 Options for on-screen display




To set the options for the on-screen display (OSD), select the Settings > OSD menu. You should see a screen like the left figure.

To adjust the transparency level of the OSD, set the OSD Transparency option as you desire. Its available range is 0 to 50 percent.

To adjust the display time of the information box, set the Info Box Display Time option as you desire. Its available range is 1 to 30 seconds. If you set this option to No Info Box, the information box will not be displayed when you switch services. However, pressing the $\boxed{i}$ button will display the information box. If you set this option to Never Hide, the information box will always be displayed. For the information box, see §5.2.3.

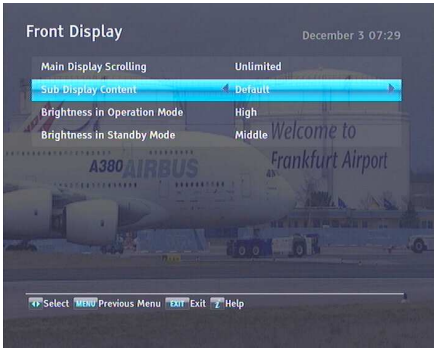
In addition, you can raise or lower the position of the information box. Set the Info Box Position option as you desire. Its available range is $-10$ to $+3$ lines. The higher you set the option, the lower the information box will be positioned.

To use an animation effect when changing menu, set the Animation option to Enable.

If any service's name is too long to fit the width of the service name column on the services list screen, you can get it to scroll by setting the Text Scroll option to anything other than Disable. With the choice of Full Scroll, it will be fully scrolled until its end disappears; with the choice of Part Scroll, it will be scrolled

only to its end.

## 4.8 Options for the front display




To set the options for the front display, select the Settings > Front Display menu. You should see a screen like the left figure.

The front display shows the currently viewed service's number and name. If any service's name is too long to fit the width of the service name column, you can get it to scroll by setting the Main Display Scrolling option to anything other than Disable. With the choice of Unlimited, it will be repeatedly scrolled; with the choice of Once, it will be scrolled only once. If you want to have the current time displayed instead of the service number, set the Sub Display Content option to Time.

You can also adjust the brightness of the front display in active mode and standby mode by setting the Brightness in Operation Mode option and the Brightness in Standby Mode option to any as you like.

## 4.9 Options for Photo Album

You can change a time interval and effect of slideshow in the photo album. For the photo album feature, see §8.4.

To change the time interval of slideshow, select the Settings > Miscellaneous menu, and then set the Slideshow Time Interval option as you desire. Its available range is 3 to 10 seconds.

To change the effect of slideshow, select the Settings > Miscellaneous menu, and then set the Slideshow Effect option as you desire. There are four types of effects as follows:

Overlap overlaps the current picture and a following picture.

Cover covers the current picture with a following picture.

Move moves the current picture and displays a following picture.

Mosaic displays a following picture with a mosaic effect.

To use those effects ramdomly, set this option to Random. The default value is Random.

## 4.10 Options for standby mode

You can have the current time displayed on the front display in standby mode. Select the Settings > Miscellaneous menu and set the Standby Mode option to Active; otherwise, set it to Passive. When you set the Standby Mode option to Active, the receiver can also bypass the signal from the antenna. To save power consumption, you might as well set the Automatic Power Down option to Enable. With this option enabled, the receiver will be turned off automatically when there is no manipulation over three hours.

# Chapter 5

# Every Day Use

## 5.1 Volume control



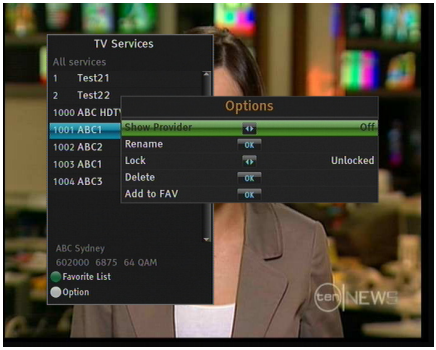
Use the VOLUME− and VOLUME+ buttons to alter the volume to a comfortable level. You may need to adjust the volume on your television set too. To temporarily switch off the sound, press the button. Press it again to restore the sound to previous level.

## 5.2 Watching television

To change services, press the CHANNEL− or CHANNEL+ button. Pressing the button switches to the previously viewed service. In addition, you can switch to your desired service by entering its service number with the numeric buttons. You can also select a service to watch in the services list.

### 5.2.1 The services list

To view the services list, press the OK button.




On the services list, you can see the service information as follows:

- Service number and name
- Multiplex information

A dollar sign (**$**) may be marked on some entries, indicating pay service. To watch pay services, you need a subscription card.

To select a desired service, put the highlight bar on its entry with the or button and press the OK button, then the selected service will be presented.

Pressing the or button skips over 10 entries up or down. Entering a service number with the numeric buttons puts the highlight bar on its entry.

You can switch between the television services list and the radio services list by pressing the button.

### 5.2.2 The favourite service lists

You can select a service on a favourite list as well as on the services list.

To display the favourite lists, press the F2 button at the services list screen. For the services list, see §5.2.1.

To select a favourite list, put the highlight bar on a desired favourite group list and press the OK button, then the selected favourite group's services will be listed.

As to how to edit the favourite lists, refer to §6.1.

To select a favourite service, put the hightlight bar on a desired service and press the OK button, the it will be displayed. To select another group, press the ↺ button.

After you have selected a favourite service, if you then switch to another service using the ◁ or ▷ button, it will be also another favourite service of the selected group. The digital receiver will remind you what group you have selected by displaying its name at the top right of the screen whenever you switch services.

To return to the services list, press the F1 button. Besides that, you can add or delete a favourite group or service.

To add the service you are currently watching into a favourite group, press the Option button to display additional options, and then select Add this service item.

To remove the currently highlighted favourite grop or service, select Delete item in the additional option box, then you get asked for confirmation; with the choice of Yes, it will be removed.

### 5.2.3 Viewing programme information

Pressing the *i* button displays the information box, on which you can see all of the following:

- Service number and name
- Signal level and quality
- Programme name
- Programme classification sign
- Programme summary
- Broadcasting time
- Current time

In addition, you might see the following symbols:

- Subtitle symbol (▭) if subtitle tracks are provided on the current programme.
- Teletext symbol (☰) if teletext pages are provided on the current service.
- Dolby Digital symbol (◧◨ D) if a Dolby Digital audio track is provided on the current programme.
- Lock symbol (🔑) if the current service is locked.
- Dollar symbol (**$**) if the current service is a pay service.

If the electronic programme guide is provided on the current service, you can see the information about the current and next programmes with the ◎ or ◎ button. You can also see the information about other services with the ◎ or ◎. In this case, you can change a service by pressing the OK button.

Pressing the *i* button once more displays detailed information about the current programme. To hide the information box, press the EXIT button.

### 5.2.4 Selecting audio tracks

Some programmes are provided with audio tracks in one or more languages. Pressing the 🔊? button displays available audio tracks. Once you select an audio track, that track will be

heard. In addition, you can enjoy audio tracks in four sound modes: Stereo, Mono, Left or Right.

### 5.2.5 Selecting subtitle tracks

Some programmes are provided with subtitle tracks in one or more languages. If the current programme provides subtitle tracks, the subtitle symbol ([_]) will be marked on the information box. Pressing the [▭] button displays available subtitle tracks. Once you select a subtitle track, it will be displayed.

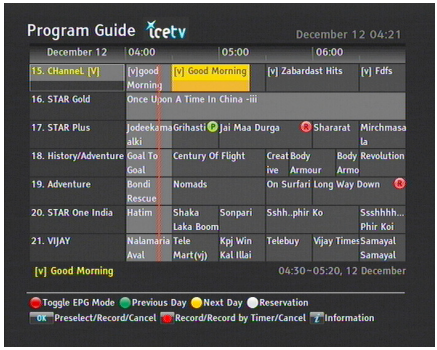
### 5.2.6 Viewing teletext

On some services, such information as weather reports, news or stock quotations is provided by means of teletext. If the current service provides teletext, the teletext symbol ([≡]) will be displayed on the information box. Press the [▭] button to view teletext pages.

Select a page to view by entering its page number with the numeric buttons. You can zoom into a teletext page with the [F3] button, and adjust its transparency level with the [F4] button. To clear the teletext screen, press the [EXIT] button.

## 5.3 Viewing electronic programme guide

The Electronic Programme Guide (EPG) shows the current and scheduled programmes that are or will be available on each service with a short summary for each programme.




Pressing the GUIDE button displays the electronic programme guide, on which you can see the following:

- Scheduled programmes
- programme summary
- Broadcasting date
- Broadcasting time

To see detailed information of a desired programme, put the highlight bar on the programme with the ◎ or ◎ button and press the *i* button. To switch to another service, press the ◎ or ◎ button.

You can travel over previous days with the F2 button, and can travel over next days with the F3 button.

To see the programme guide for radio broadcasts, press the ▭/▭ button. To switch it back, press the ▭/▭ button again.

Pressing the F1 button will rearrange the form, swapping the columns and rows. To switch it back, press the F1 button again.

You can make a timer recording on the electronic programme guide. See §7.1.3 for detailed description.

## 5.4 Using time-shift

You can pause and resume a live television programme, and even rewind and replay it. When you are watching a programme and you miss something, you can rewind and replay it. Or when your attention is needed elsewhere, you can pause a live TV and resume a short time later without losing any of the programme.

When you do this, you are no longer watching the live programme, instead you are watching a delayed presentation. This is called time-shifted television. You can skip commercials until you catch up to the live broadcast.

In order to use the time-shift feature, set the Time Shifting option to desired duration of time. Then the digital receiver will archive the programme as much time as you set in the option. See §4.5.

The time-shift will be reset each time you change to another service. With the time-shift, the following operations are possible:

- To go back in time, hold down the ◂◂ button; to go forward, hold down the ▸▸ button. The progress bar is displayed momentarily with a preview window.
- You can navigate using the progress bar, refer to §7.3.1.
- You can jump backward and forward by pressing the F4 and F3 buttons. You can change the jump time at the Jump Time Interval option. See §4.6.
- You can change playback speed. See §7.3.2 for slow motion. For fast motion, see §7.3.3.
- To check your current position in time-shift, press the *i* button. The time difference compared to live programme is displayed momentarily in top right corner of the screen. A value of −02:00 means two minutes behind the live programme.
- To make a recording of the time-shifted programme,, see §7.1.4.

- To end time-shift, press the ■ button. The live programme will be displayed.

**NOTE**

You can adjust some options for time-shift. Refer to §4.5.

# Chapter 6

# Organising Services

## 6.1 Editing the favourite lists

You can make your own favourite service lists. In fact, you can define multiple favourite service lists, each being a 'group' of chosen services.

Select the Installation > Edit Favorite List menu. You should see a screen like the left figure. There are three columns:

- Group list (left)
- Favourites list (centre)
- Services list (right)

The services list contains all available services, whereas the favourites list contains only chosen services that have been added to the highlighted group. As you move the highlight bar up or down on the group list, favourite services belonging to the highlighted group get shown in the favourites list.

You can add up to 30 groups. To add a new group, select the NEW item in the group list, then the on-screen keyboard appears. See §6.2 as to how to use the on-screen keyboard.

To rename a group, put the highlight bar on the group entry you want and press the F2 button, then the on-screen keyboard likewise appears.

To delete a group, put the highlight bar on the group entry you want and press the F3 button, then a message box appears, asking you for confirmation. With the choice of Yes, it will be deleted.

You can add a favourite service to a group by taking the following steps:

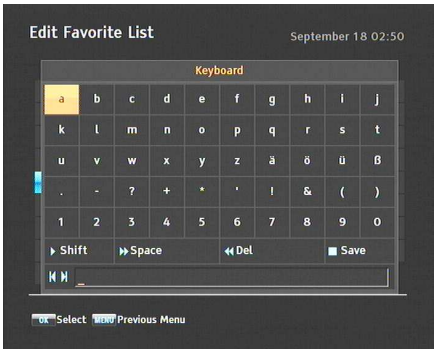
1. Put the highlight bar on a desired group entry in the group list and press the OK button to select it. The highlight bar then moves to the services list.
2. To add a service to the selected group, put the highlight bar on a desired service entry and press the OK button. The selected service entry gets added to the favourite list. Repeat this step to add more entries.
3. Press the F1 button, and the highlight bar gets moved to the favourite list. You can delete a favourite entry with the OK button.
4. To select another group, press the F1 button again, then the highlight bar gets moved to each column.

Furthermore, you can rearrange a group's favourites by moving a favourite entry. To move a favourite entry, put the highlight bar on the favourite entry you want and press the F2 button. Move it to a desired place and press the OK button.

To add radio services, press the TV/R button, then radio service entries get listed in the services list. To recall the television services list after adding radio services, press the TV/R button again.

As to how to use the favourite service lists you organised, refer to §5.2.2.

## 6.2 How to use on-screen keyboard


Edit Favorite List
September 18 02:50
Keyboard
a b c d e f g h i j
k l m n o p q r s t
u v w x y z ä ö ü ß
. - ? + * ' ! & ( )
1 2 3 4 5 6 7 8 9 0
Shift
Space
Del
Save
OK Select MENU Previous Menu

You can move the highlight key horizontally with the and buttons and vertically with the and buttons. Pressing the OK button on a key enters its letter in the input line.

To type a space, select the Space key or alternatively press the ▶▶ button. To type lower case letters or numerals, select the Shift key or alternatively press the ▶ button. To delete a letter, put the cursor to the right of the desired letter on the input line and then select the Del key or alternatively press ◀◀ button. You must select the Save key or alternatively press the ■ button to complete your typing; otherwise if you press the EXIT button, it will not be saved.

# Chapter 7

# Recording and Playback

You can record TV programmes into an external hard drive as well as the built-in hard drive.

**NOTE**

To use an external hard drive, you must connect the external hard drive to the USB port of the digital receiver.

**CAUTION**

Do not disconnect the external hard drive while recording or playing back. It may cause damage to recorded programmes. You should disconnect the external hard drive in standby mode only.

You can record a service while watching another one with this digital receiver. You can record two different services while watching another one only if two among the services are provided through the same transponder. The digital receiver has two tuners so that you can enjoy the following:

- You can record two different services while playing back a previously recorded programme.

- You can record two different services while watching one of them using the time-shift feature. See §5.4 for the time-shift feature.

## 7.1 Recording a programme

Once a recording gets started, a symbol like the left figure will be displayed at the top right of the screen for a few seconds.

When you are watching a different service from the service being recorded, you will see a number on the centre of the symbol, this indicates the order that the recording has started. To record two programmes simultaneously, two tuners are allocated for the recording. Therefore, you can only change to a limited number of services while the two programmes are being recorded.

**CAUTION**

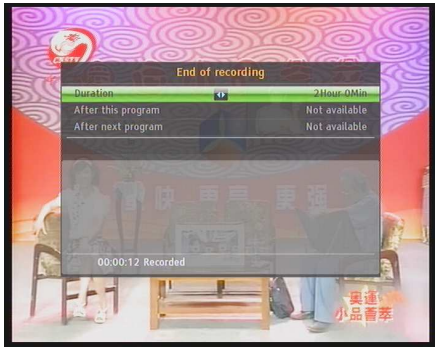
**Do not move the digital receiver nor pull out the power plug while it is running. It may cause damage to recorded programmes. Topfield is not responsible for damages inflicted on files that are stored on the hard drive.**



### 7.1.1 Instant recording

To instantly record a programme you are watching at present, press the [●] button.

Pressing the [II] button will not pause the current recording like it does with a video recorder. Instead, pressing the [II] button will pause the live show and begin time-shifting within the current recording even with the Time Shifting option disabled. In short, it is still possible to pause a recording, but literally recording continues in the digital receiver.




After a recording has started, pressing the ● button displays a menu like the left figure, in which you can set the recording duration.

To specify an arbitrary recording duration, set the Duration option as you desire with the ◁ and ▷ buttons and press the OK button; the recording will end at the specified time.

If the information about the next programme is provided by the electronic programme guide, the After this program and After next program options will be enabled. Once the After this program option is selected, the current recording will stop at the time when the current programme is scheduled to end. Likewise, once the After next program option is selected, the current recording will stop at the time when the next programme is scheduled to end.

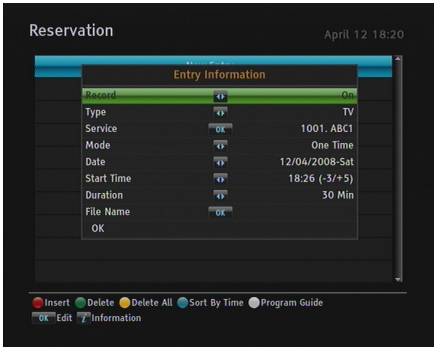
To stop recording, press the ■ button; then a box like the left figure appears, which shows the programmes currently being recorded. Select recording by using navigation buttons then press OK button to stop the recording.

While a recording is going on, you can watch or record another service. To additionally record another service, switch to the

service you want to record, and press the [●] button. Once a recording is started, it is put on the recorded programme list even though it is not finished yet. The recording file is named the program name if available or after its service name with a suffix of a number. To view the recorded programme list, press the [▤] button or alternatively select the Recording > Recorded Program menu. See §7.2 for detailed description about the recorded programme list.

### 7.1.2 Timer recording

You can set a programme to be recorded at a specific time. Even if the digital receiver is in standby mode, it will switch into active mode and start recording at a specified time. When the recording comes to the end, the digital receiver will switch back into standby mode again in one minute. However, if you press any button on the remote control or on the front panel even just one time, the digital receiver will not switch into standby mode.




To add a timer recording, select the Recording > Reservation menu, then the timer list will be displayed. To add a new timer event, press the [F1] button, and a box like the left figure appears. Take the following steps:

1. Set the Record option to On to make a recording. If this option is set to Off, the digital receiver will turn on at the specified time but not record; instead, you may record with your video recorder or suchlike in this case.
2. You may have two sources for recording, TV and radio. Set the Type option to your desired source.

3. Set the Service option to the service which provides the programme you want. Pressing the OK button on this option displays a services list, from which you can select your desired service.
4. Set the Mode option as you desire. There are five timer modes:

   One Time means literally 'one time'.
   Every Day means literally 'every day'.
   Every Weekend means 'Saturday and Sunday every week'.
   Weekly means 'one day every week'.
   Every Weekday means 'from Monday to Friday every week'.

   If your favourite programme is broadcast at weekends and you wish to record every episode of the programme, set the Mode option to Every Weekend.
5. Set the Date option to a desired date, on which the digital receiver will turn on. The date format is *day/month/year-day of the week*.

   Set the Start Time option to a desired time, at which the recording will be started. The time format is *hour:minute*.
6. Set the Duration option to a desired time, in which the recording will be finished.
7. Pressing the OK button on the File Name option displays the on-screen keyboard, with which you can specify a file name for the timer recording. If you do not specify anything, it will be named after the service name. See §6.2 as to how to use the on-screen keyboard.
8. To set a recording reservation with the above settings, select the OK item; otherwise, it will not be saved and will not occur.

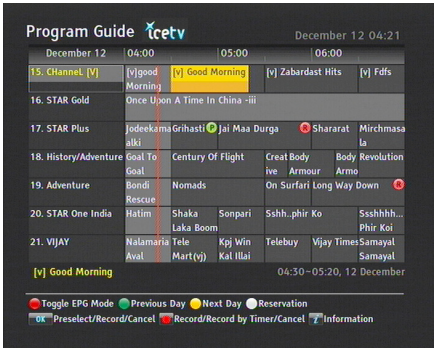
You can also edit or delete timer events in the timer list. To edit a timer entry, put the highlight bar on the entry you want and

press OK button; then appears a box in which you can change its settings in the same manner as making a new one.

To delete a timer event, put the highlight bar on the entry you want to remove and press the F2 button, then you get asked for confirmation. With the choice of Yes, it will be deleted. To delete all timer event, press the F3 button.

You can sort timer events by time with the F4 button.

### 7.1.3 Scheduling recordings using the programme guide




If the electronic programme guide is properly provided, you can make timer events on it. The instructions on how to make timer recordings using the electronic programme guide are as follows:

1. Press the GUIDE button to display the electronic programme guide.
2. Select a programme you want to record with the navigation buttons.
3. To make a timer event without recording, press the OK button; the letter **P** is displayed. To make a timer event with recording, press it once more or alternatively press the ● button, then the letter **R** is displayed.
4. Pressing the OK button once more will cancel the timer.

### 7.1.4 Recording a time-shifted programme

While watching a programme with time-shift, you can record it by performing the following steps:

1. Press the ▶ button to display the progress bar.
2. To move to the beginning of the desired scene, hold down the ⏪ or ⏩ button until it is reached.
3. Press the ● button to start recording. The time-shift buffer from that position onwards will now be recorded.
4. Press the ■ button to stop recording.
5. Press the ■ button once more to stop time-shift.

See §5.4 for detailed description about the time-shift feature.

### 7.1.5 Recording a pay service programme

You can record a pay service programme without the subscription card. However, you need the subscription card to play it back because it has not been descrambled. So it is recommended to record pay service programmes with a proper subscription card so that they can be descrambled and recorded. In that case, you can enjoy them without the subscription card like free services.

To record a programme of a pay service in descrambled form, take the following steps:

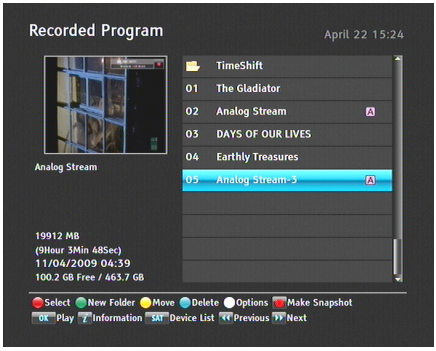
1. Select a programme of a pay service you want to record.
2. Make sure that the subscription card is inserted in the slot on the front of the digital receiver.
3. Start recording.
4. Do not switch to other service nor use time-shift until recording is finished.

**NOTE**

If you switch to other service or use time-shift in the middle of recording a pay programme, it will be recorded without descrambling from that moment. Even if the recording is only partially descrambled, you need the subscription card to play it back.

## 7.2 File archive

When a programme is recorded, it is stored as a file on the hard drive of the digital receiver. You can select a recording to play back from the recorded programme list.




Select the Recording > Recorded Program menu or alternatively press the [▤] button to display the recorded programme list. The file information is comprised of the following elements: file number, file name, recording time, running time, file size and so on.

You can play, move, delete, rename and lock a recording file. You can also sort the recording files by file name, running time or file size. In addition, you can make a new folder.

### 7.2.1 To delete a recording

To delete a recording, put the highlight bar on it and press the [F4] button, then you get asked for confirmation. With the choice of Yes, it will be deleted.

### 7.2.2 To sort recordings

To sort the recordings, take the following steps:

1. Press the [Option] button to display additional options.
2. Set the Sorting option to Alphabetic, Time or Size as you want.
3. Press the [EXIT] button.
4. They will be sorted by the specified option.

### 7.2.3 To lock a recording

To lock a recording so that other persons cannot play or delete it, take the following steps:

1. Put the highlight bar on a desired recording.
2. Press the Option button to display additional options.
3. Set the Lock option to Locked.
4. Press the EXIT button.
5. The lock symbol (🔑) is displayed on it.

If you select a locked recording to play it back, you will be asked for your personal identification number.

### 7.2.4 To rename a recording

To change a recording's name, take the following steps:

1. Put the highlight bar on a desired recording.
2. Press the Option button to display additional options.
3. Select the Rename option, and the on-screen keyboard appears. Change the name and save it. See §6.2 as to how to use the on-screen keyboard.

### 7.2.5 To make a new folder

To make a new folder, press the F2 button, then a new folder named GROUP # is created. You can change its name in the same manner as renaming a recording. See above.

### 7.2.6 To move a recording to another folder

To move a recording to another folder, put the highlight bar on a desired recording and press the F3 button. If an external hard drive is connected to the digital receiver, you get asked to select between the built-in and external hard drive. Select Internal, then the folders are listed. Once you choose a folder, the recording is moved to it.

## 7.3 Playing back a recording

When a programme is recorded, its additional contents such as audio track or subtitle track are also recorded together. So you can enjoy them while playing back a recording.

The instructions on how to play a recording are as follows:

1. Select the Recording > Recorded Program menu or alternatively press the [▤] button to display the list of recorded programmes.
2. Put the highlight bar on a desired recording and press the [OK] button, then an option box pops up.
3. To play from beginning, set the Starting Position option to Beginning; to play from the point that you have stopped at the last time, set it to Continuing. To start playback, select the Play item.
4. To stop playback, press the [■] button.

During playback, you can enjoy the following tricks:

- To see the detailed information about the currently played recording, press the [*i*] button; then the information box appears and shows its file name, running time, programme information, and so on.
- To pause playback, press the [II] button. To resume it, press the [▸] button.
- To view the progress bar, press the [▸] button; to hide it, press the [▸] button again.
- When the progress bar is hidden, you can move to a desired scene by entering a progress percentage with the numeric buttons.

### 7.3.1 To navigate using the progress bar

First press the [▸] button to display the progress bar.

- To go forward, hold down the ◎ button; to go backward, hold down the ◎ button.

- If there are no bookmarks, you can jump forward by the minute set to the Jump time Interval option with the F3 button. See §4.6 for that option. Refer to §7.3.4 as to how to bookmark a position.
- To jump to the beginning, press the ⏮ button.
- To jump to the end, press the ⏭ button.
- To hide the progress bar, press the ▶ button again.

### 7.3.2 To play in slow motion

To watch in slow motion during a playback, press the ⏯ button. If you press it repeatedly, the playback speed changes in 4 steps: 1/2, 1/4, 1/8 and 1/16 times. To resume normal speed, press the ▶ button.

### 7.3.3 To play in fast motion

To watch in fast motion during a playback, press the ⏩ button. If you press it repeatedly, the playback speed changes. To resume normal speed, press the ▶ button.

You can play not only forward but also backward in fast motion. To play backward, press the ⏪ button. If you press it repeatedly, the playback speed changes. To resume normal speed, press the ▶ button.

You can change the playback speed in 3 steps (4, 16 and 64 times) or in 6 steps (2, 4, 8, 16, 32 and 64 times). See §4.6.

### 7.3.4 To make a bookmark

You can mark favourite parts of a recording by creating bookmarks and then jump to them in sequence. Bookmarks are stored with the recording so that you can use them again afterwards. To make bookmarks, take the following steps during playback:

1. Press the ▶ button to display the progress bar.
2. To add a bookmark, press the F2 button at a desired scene, then you will see a small pointer appear above the progress bar like in the picture above.
3. To jump forward to the next bookmark, press the F3 button.

### 7.3.5 To play back recordings in sequence

You can play several recordings continuously in sequence by performing the following steps:

1. Press the ☰ button or alternatively select the Recording > Recorded Program menu to display the list of recorded programmes.
2. Select each desired recording with the F1 button. Once a recording is selected, it gets numbered.
3. Press the ▶ button to start playback.
4. The selected recordings are played in the sequence that they are numbered.
5. To jump to the beginning of the next recording in the queue, press the ▶ button to display the progress bar, then press the ▶| button.

### 7.3.6 To play back a scrambled recording

If you have recorded a programme of a pay service with the subscription card, you can play it as freely like that of a free service. Otherwise you need the subscription card to play it back because it has been recorded without descrambling even though it may have been partially descrambled.

On the recorded programme list, a purely green **$** indicates the recording has been wholly descrambled; on the other hand, a yellowish green **$** indicates it has been partially descrambled, and a purely yellow **$** indicates it has not been descrambled at all.

There are two ways to fully descramble a scrambled recording so that you can play it back without the subscription card later on. One is to make a copy while playing it back to the end; the other is to make the copy job to be carried out as a timer event.

The first method is very easy to carry out. When you select an entry to play in the recorded programme list, the playback option box appears. Simply set the Descramble Mode option to Auto Recording. Then a descrambled copy will be created while you are watching it.

**NOTE**

You should get the scrambled recordings descrambled as soon as possible. You could lose the chance to descramble forever if you hang around too long because broadcasting operators frequently changes the key signal for descrambling.

## 7.4 Copying a recording

You can record the file in whole or in part during a playback by performing the following steps:

1. Start playback of a recording you want.

2. Move to a scene from which you want to start copying by holding down the ⏪ or ⏩ button.
3. Press the ● button, then it will be copied in a new file which is named after the original recording with a suffix of 'COPY' and a number.
4. To stop copying, press the ■ button.

## 7.5 Formatting the hard disk

If a new hard drive is installed, it must be formatted because you can neither record nor use time-shift with an unformatted hard disk.

You can delete permanently all contents stored in a hard drive by formatting it. Select the Installation > System Recovery > Format Hard Disk menu, and then select the hard drive you want to format. To format the built-in hard drive, select the option to Internal; otherwise to format the external hard drive which is connected to the digital receiver, select the option to External. With pressing the OK button, you get asked for confirmation. Formatting will start with the choice of Yes.

**NOTE**

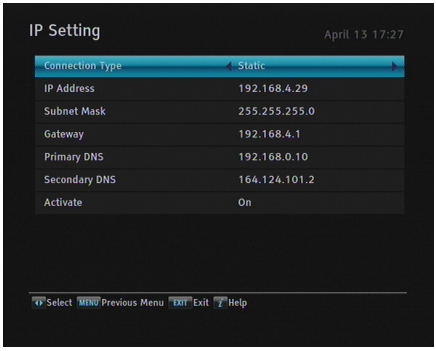
The hard drive on the digital receiver will be formatted in the JFS file system.

# Chapter 8

# Entertainment

This digital receiver provides several special features for entertainment.

## 8.1 Configuring the network setting




You should configure the network settings to enjoy a variety web services. Select the Installation > Network Setting > IP Setting menu.

The easiest way to configure the network settings is to assign a dynamic IP address to the digital receiver by setting the Connection Type option to DHCP.

To assign a static IP address, set the Connection Type option to Static, then the IP Address, Subnet Mask, Gateway, Primary

DNS and Secondary DNS options become enabled. You have to set these options to match with the configuration of your router.

## 8.2 Copying files

**NOTE**

If your external hard drive is formatted in the FAT16/32 or NTFS, it can only be read. To enable to write and read, the hard drive must be formatted in the JFS or Ext2/3 file system. As to how to format hard drive on the digital receiver, refer to §7.5.

You can copy files between the built-in hard drive and external hard drive.

To copy from the internal to the external hard drive take the following steps:

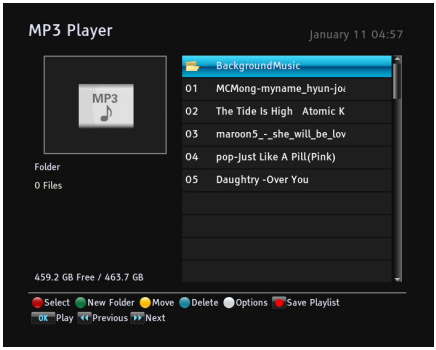
1. Connect an external hard drive to the digital receiver.
2. Press the [≡] button and then press the [◀◀] or [▶▶] button to select a desired file list except the External list.
3. Put the highlight bar on a desired file and press the [F3] button, then you get asked to select between the built-in and external hard drive.
4. Select External, then the folders are listed.
5. Select a destination folder and press the [OK] button, then the selected file will be copied into the external hard drive.

To copy from the external to the internal hard drive, take the following steps:

1. Connect an external hard drive to the digital receiver.
2. Press the [≡] button and then press the [◀◀] or [▶▶] button to select the External List.

3. Put the highlight bar on a desired file and press the F3 button, then the list of folders gets displayed.
4. Select a folder in the built-in hard drive.
5. Press the OK button, then the selected file will be copied into the built-in hard drive.

## 8.3 Playing back MP3 files

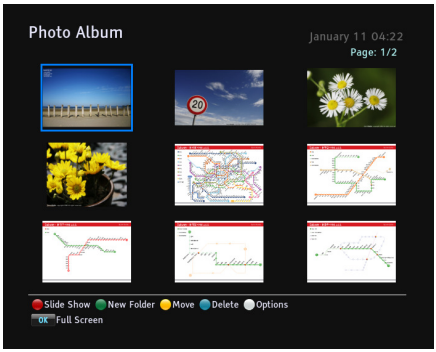



You can enjoy music or audio books in MP3 format on the digital receiver. Refer to §8.2 as to how to copy a file from an external hard drive into the built-in hard drive of the digital receiver. To play an MP3 file, take the following steps:

1. Select the Entertainment > MP3 Player or press the ☰ button and then the ◀◀ or ▶▶ button to display the MP3 file list.
2. Put the highlight bar on a desired file; if you want to play several files, select them with the F1 button.
3. Press the ▶ button to start playback.
4. To stop playback, press the ■ button.

To play all MP3 files in a subfolder, put the highlight bar on a desired folder, and press the ▶ button. To change from one file to the next or previous file, use the ▶| or |◀ buttons.

## 8.4 Viewing image files



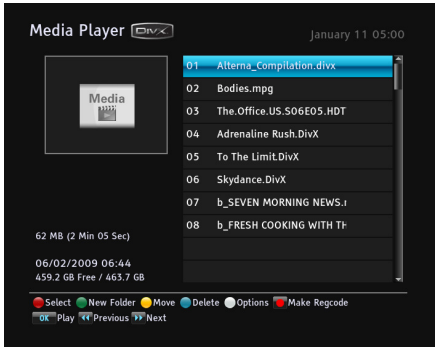

You can view image files in jpg format by performing the following steps:

1. Select the Entertainment > Photo Album menu, and then press the ◀◀ or ▶▶ button to display the list of image files.
2. Put the highlight bar on a desired file and press the OK button; if you want to view several files using a slide show, press the F1 button. You can change a time interval and effect of slideshow. See §4.9.
3. To stop viewing, press the EXIT button.

## 8.5 Playing back a video file

You can play back media files such as photos, videos and music with this digital receiver. Media file formats that you can play back with the digital receiver are as follows:

- video: DivX, XviD, vob, mkv, mp4, and avi;
- photo: jpg;
- music: MP3.




Refer to §8.2 as to how to copy a file from an external hard drive into the built-in hard drive of the digital receiver. To play a video file, take the following steps:

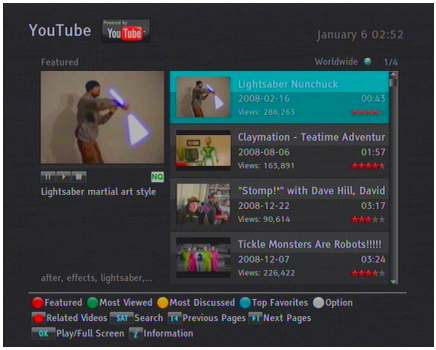
1. Select the Entertainment > Media Player or press the [≡] button, and then the [◀◀] or [▶▶] button to display the video file list.
2. Put the highlight bar on a desired file; if you want to play several files, select them with the [F1] button.
3. Press the [▶] button to start playback.
4. To stop playback, press the [■] button.

**NOTE**

This digital receiver supports only version 3.x, 4.x, 5.x, and 6.x of the Divx format.

## 8.6 Playing back YouTube contents

YouTube is a video sharing website where users can upload, view and share video files. With the CRC-2400, you can access YouTube and play back various contents.




When you select the Entertainment > YouTube, you should see a screen like the left figure.

To play back a YouTube content, select a content with the ◎ and ◎ buttons and press the OK button. To play back the content with full screen, press the OK button again.

You can sort the contents with the option buttons as follows:

- F1 button by most featured
- F2 button by view count
- F3 button from most discussed to least discussed
- F4 button by top favourites
- ● button related contents

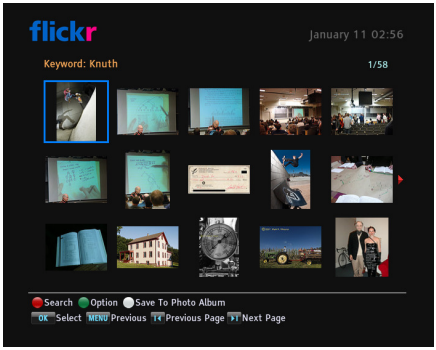
By pressing the Option button, you can sort the contents by the updated date, country and quality.

You can also search contents by a specific keyword. To search contents by a keyword, press the SAT button, then the on-screen keyboard appears. See §6.2 as to how to use the on-screen keyboard.

To see detailed information about the current one, press the *i* button. To hide the information box, press the EXIT button.

## 8.7 Sharing image files by Yahoo Flickr

Flickr is an image hosting website and on-line community platform. You can search an image file from the network server and view the file using the Flickr.




To use this function, select the Entertainment > Flickr.

You can see image files which belong to a specific user by adding a user. To add a user, take the following steps:

1. Press the F1 button, then the on-screen keyboard appears.
2. Enter a desired user name. As to how to use the keyboard, refer to §6.2.
3. After adding a user, select the user with the and buttons and press the OK button.

To delete a user, put the highlight bar on a desired user and press the F2 button, then you get asked for confirmation. If you select YES, it will be deleted.

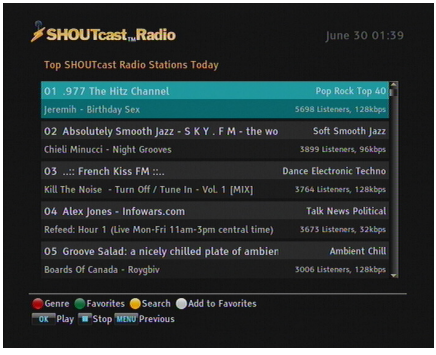
You can also search image files by a specific keyword. To do that, take the following steps:

1. Press the F3 button to go to the keyword search mode.
2. Press the F1 button, then the on-screen keyboard appears.
3. Enter a keyword as you desire. As to how to use the keyboard, refer to §6.2.
4. Select the Save key on the on-screen keyboard to start searching image files.

To save an image file to the photo album, press the Option button. For the photo album see §8.4.

## 8.8 SHOUTcast Internet radio

SHOUTcast™ Radio is one of the largest directories of professionally and community programmed online radio stations in the world. Today SHOUTcast™ Radio features over 25,000 stations from around the globe. If you are into pop or rock music, want to check out local or world programming, you're sure to find something you like on SHOUTcast™ Radio.


SHOUTcast Radio
June 30 01:39
Top SHOUTcast Radio Stations Today
01 .977 The Hitz Channel
Pop Rock Top 40
Jeremih - Birthday Sex
5698 Listeners, 128kbps
02 Absolutely Smooth Jazz - S K Y . F M - the wo
Soft Smooth Jazz
Chieli Minucci - Night Grooves
3899 Listeners, 96kbps
03 .:: French Kiss FM ::..
Dance Electronic Techno
Kill The Noise - Turn Off / Tune In - Vol. 1 [MIX]
5764 Listeners, 128kbps
04 Alex Jones - Infowars.com
Talk News Political
Refeed: Hour 1 (Live Mon-Fri 11am-3pm central time)
3673 Listeners, 32kbps
05 Groove Salad: a nicely chilled plate of ambien
Ambient Chill
Boards Of Canada - Roygbiv
3006 Listeners, 128kbps
Genre
Favorites
Search
Add to Favorites
OK Play
Stop
MENU Previous

To use SHOUTcast, select the Entertainment > SHOUTcast.

To listen to a radio station, select a radio station with the ◉ and ◉ buttons and press the OK button.

To search radio stations by genre, press F1 button.

You can also search radio stations by a specific keyword. To do that, take the following steps:

1. Press the F3 button, then the on-screen keyboard appears.
2. Type a keyword you desire. As to how to use the keyboard, refer to §6.2.
3. Select the Save key on the on-screen keyboard to start searching radio stations.

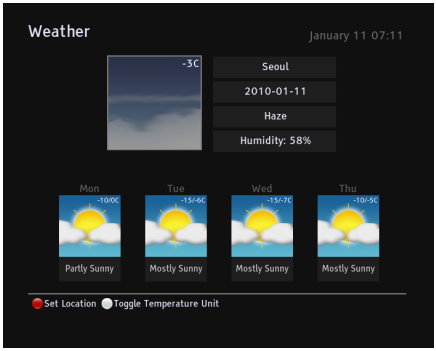
To add a radio station to a favourite list, put the highlight bar on a desired radio station and press the Option button. To display the favourite list, press the F2 button.

Powered by SHOUTcast Radio

For more details, visit the SHOUTcast web site, http://www.shoutcast.com. You can check their terms of service at the http://www.shoutcast.com/disclaimer.

## 8.9 Google weather forecast

You can view the weather of your city or other cities.




To view the weather, select the Entertainment > Weather, then you should see a screen like the left figure.

To change a city, take the following steps:

1. Press the F1 button to see additional options.
2. Set the Continent, Country and City options as you desire with the navigation buttons.
3. Press the EXIT button.

Pressing the Option button toggles between the Centigrade and Fahrenheit.

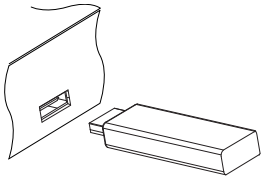
# Chapter 9

# Firmware Update

The digital receiver has a stable and convenient firmware to use. However, once in a while a new firmware may be released to improve the digital receiver. You can get the latest firmware and the firmware update tool, which runs on most versions of Windows, from the Topfield website, http://www.i-topfield.com.

## 9.1 From a memory stick

If you have a USB memory stick, you can update the firmware from it by taking the following steps:



1. Download a new firmware from the Topfield website.
2. Copy the firmware file to your memory stick.
3. Insert the USB memory stick into the USB port on the digital receiver.
4. Select the Installation > Firmware Upgrade > USB Firmware Upgrade menu, and the files in the USB memory will be listed.

5. Place the highlight bar on the right firmware file and press the OK button, and a countdown will be displayed on the front display of the digital receiver.
6. When the message of 'END' appears, restart the digital receiver.

## 9.2 Over the air

It is possible to update the firmware to the latest version over the air. If a new version is available at any time, then a message box pops up, asking you whether to start firmware update. With the choice of Yes, you will be moved to the SSU Software Upgrade menu, and the firmware update will be started.

# Appendix A

# Universal Remote Control

The universal remote control allows you to operate the most important functions such as power on/off and volume control on your television, audio-video receiver, or DVD player. For the use of buttons, refer to Table A.1. To be able to control the device, you must adapt the remote control to the device first.

Take the following steps:

1. Turn on the device you want to operate.
2. Point the remote control at the remote sensor on the device.
3. Hold down the OK and device button simultaneously for two seconds until the light flashes on. For example, if you want to operate your television with the remote control, press the OK and TV buttons simultaneously.
4. Find the manufacturer of the device from the codes list.
5. Enter the three-digits code you have found for your device and press the OK button.
6. If the setting is finished correctly, the light blinks twice and the device will be turned off. Otherwise, repeat from the step 2.

If you cannot find a code for your device, do as follows:

1. Turn on the device you want to operate.
2. Point the remote control at the remote sensor on the device.
3. Hold down the OK and device button simultaneously for two seconds until the light flashes on. For example, if you want to operate your television with the remote control, press the OK and TV buttons simultaneously.
4. Press the CHANNEL+ or CHANNEL− button until the device turns off.

If you want to find out the number which you set for your device, do as follows:

1. Hold down the OK and device button simultaneously for two seconds. For example, if you want to know the number which you set for your television, press the OK and TV buttons simultaneously.
2. Press the *i* button. Then the light will show the number with blinks. For example, if the number is 3, the light will blink three times. In case of 0, the light will blink ten times.

You can reset the settings by doing as follows:

1. Hold down the TV and 0 buttons simultaneously for more than five seconds.
2. Each device button blinks three times in the following order: PVR → DVD → AUX → TV
3. After that, all settings will be reset to the manufacturer's factory settings.

**NOTE**

Some buttons may not work properly depending on a device. If your device code is not listed on the following pages, you will not be able to use this remote as a universal remote for your specific device.

**Table A.1: Operating buttons**

| PVR | TV | DVD | AUX |
|---|---|---|---|
| | Power on/off | Power on/off | Power on/off |
| VOLUME + | Volume up | Volume up | Volume up |
| VOLUME − | Volume down | Volume down | Volume down |
| | Mute | X | Mute |
| CHANNEL + | X | X | Channel up |
| CHANNEL − | X | X | Channel down |
| 0 | 0 | 0 | X |
| 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 |
| *i* | TV INPUT | X | X |
| | X | Up | X |
| | X | Down | X |
| OK | X | OK | X |
| | Left | Left | X |
| | Right | Right | Right |
| MENU | X | Menu | X |
| GUIDE | X | Guide | X |
| EXIT | X | Exit | Exit |
| ■ | X | Stop | X |
| ◀◀ | X | Rewind | X |
| ❚❚ | X | Pause | X |
| ▶ | X | Play | X |
| ▶▶ | X | Fast forward | X |

## A.1 Code list for television sets

**A**

| | |
|---|---|
| ACCENT | 049, 063 |
| ACEC | 112 |
| ACURA | 195 |
| ADMIRAL | 065, 076, 163, 171, 190, 307, 324, 369 |
| ADYSON | 379 |
| AGASHI | 076, 379 |
| AGEF | 324 |
| AIKO | 049, 063, 076, 102, 141, 172, 195, 225, 379 |
| AIM | 049, 063 |
| AIWA | 376, 377 |
| AKAI | 019, 049, 050, 055, 063, 076, 102, 107, 123, 133, 139, 141, 150, 172, 174, 182, 195, 209, 225, 326, 333, 379, 428, 432, 433, 437 |
| AKIBA | 006, 049, 063, 123, 380 |
| AKITO | 049, 063, 106 |
| AKURA | 006, 049, 076, 096, 123, 195, 419, 426 |
| ALARON | 042, 334 |
| ALBA | 018, 044, 049, 050, 107, 123, 134, 163, 179, 184, 195, 225, 228, 232, 239, 379, 413, 421, 431 |
| ALBIRAL | 121, 326, 372 |
| ALCYON | 407 |
| ALLORGAN | 050, 094, 236, 334 |
| ALLSTAR | 049, 063 |
| AMPLIVISION | 113, 379, 421, 425 |
| AMSTRAD | 004, 011, 049, 063, 076, 123, 131, 172, 195, 225, 426 |
| ANAM | 049, 063, 195 |
| ANGLO | 076, 195 |
| ANITECH | 049, 063, 076, 195, 407 |
| ANSONIC | 045, 049, 063, 107, 112, 195, 210, 242, 391, 413, 421 |
| APOLLO | 165 |
| ARC EN CIEL | 029, 034, 074, 182, 186, 415, 424 |
| ARCAM | 029, 379, 424 |
| ARDEM | 392 |
| ARISTONA | 049, 050, 063, 065, 079, 112, 158, 160, 188 |
| A.R.SYSTEM | 049, 063 |
| ARTHUR MARTIN | 075, 107, 127, 133, 136, 139, 148, 153, 307, 425 |
| ASA | 003, 020, 065, 078, 080, 091, 117, 146, 171, 197, 235, 307, 319, 324, 341, 375, 406, 408 |
| ASBERG | 049, 063, 407 |
| ASORA | 195 |
| ASTRA | 195 |
| ASUKA | 006, 050, 076, 123, 379 |
| ATLANTIC | 049, 050, 063, 113, 236, 242, 379 |
| ATORI | 195 |
| AUCHAN | 107, 425 |
| AUDIOSONIC | 031, 049, 063, 074, 076, 195, 213, 379, 392, 421 |
| AUDIOTON | 050, 076, 379, 392, 421 |
| AUSIND | 075, 090, 407 |
| AUTOVOX | 050, 071, 078, 079, 080, 083, 090, 147, 156, 236, 254, 305, 319, 323, 324, 379, 407, 413, 416 |
| AWA | 018, 049, 063, 131, 195, 206, 320, 379, 426, 433 |
| AYOMI | 411 |

**B**

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| BAIRD | 074, 102, 182, 209, 321, 329, 379, 409 |
| BANG & OLUFSEN | 324 |

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|---|---|
| BARCO | 107, 355, 371, 372, 422 |
| BASIC LINE | 006, 031, 049, 107, 123, 159, 195, 207, 226 |
| BASTIDE | 379 |
| BAUR | 012, 049, 053, 063, 107, 150, 172, 244, 245, 246, 247, 301, 357, 414, 416 |
| BAZIN | 379 |
| BEKO | 063, 184, 240, 241, 392, 421, 433 |
| BEON | 049, 063, 163 |
| BEST | 213, 421 |
| BESTAR | 049, 063, 421 |
| BINATONE | 379 |
| BLACK STAR | 413 |
| BLACKTRON | 006 |
| BLACKWAY | 006 |
| BLAUPUNKT | 019, 053, 057, 060, 113, 118, 244, 245, 246, 247, 248, 249, 308 |
| BLUE SKY | 006, 049, 063, 123, 195, 232 |
| BLUE STAR | 006 |
| BONDSTEC | 413 |
| BOOTS | 050, 106, 379 |
| BPL | 006, 049, 063 |
| BRANDT | 074, 182, 218, 415, 424, 436 |
| BRANDT ELECTRONIQUE | 029, 034, 074, 182, 186 |
| BRINKMANN | 049, 063, 163 |
| BRION VEGA | 049, 063, 065, 083, 167, 172, 173, 181, 196, 324, 356 |
| BRITANNIA | 379 |
| BROTHER | 076 |
| BRUNS | 056, 065, 324 |
| BSR | 094, 107, 110, 139, 168, 314 |
| BTC | 123 |
| BUSH | 006, 018, 049, 076, 094, 106, 107, 123, 134, 139, 142, 143, 172, 179, 195, 209, 223, 225, 226, 232, 239, 307, 379, 416 |
| BUSH (UK) | 107, 147, 168 |

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| CAPSONIC | 076 |
| CARAD | 049, 063 |
| CARENA | 049, 063, 380 |
| CARREFOUR | 018, 406 |
| CARVER | 177 |
| CASCADE | 049, 063, 064, 195 |
| CASIO | 049, 063 |
| CATHAY | 049, 063 |
| CCE | 049, 063, 379 |
| CENTURION | 049, 063 |
| CENTURY | 044, 054, 065, 163, 189, 324, 411, 413 |
| CGE | 002, 044, 054, 090, 093, 094, 096, 107, 139, 142, 163, 168, 189, 369, 407, 413, 421 |
| CIHAN | 111 |
| CIMLINE | 031, 123, 134, 195 |
| CITY | 195 |
| CLARIVOX | 056, 121, 125, 163, 406 |
| CLATONIC | 076, 123 |
| CLATRONIC | 031, 045, 049, 063, 076, 113, 123, 195, 225, 379, 407, 413, 421, 431 |
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| CONCORDE | 195 |
| CONDOR | 006, 045, 049, 050, 063, 113, 163, 195, 210, 379, 413, 421 |
| CONTEC | 018, 131, 195, 206, 302, 320, 379 |
| CONTINENTAL EDISON | 029, 034, 074, 182, 186, 232, 415, 424 |
| COSMEL | 195, 213 |
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| EUROPHON | 044, 045, 046, 049, 050, 063, 068, 107, 120, 168, 318, 336, 379, 413 |
| EXPERT | 107, 236, 242, 425 |
| EXQUISIT | 049, 063, 413 |

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| FENNER | 063, 195 |
| FERGUSON | 001, 032, 050, 073, 074, 076, 080, 082, 102, 103, 121, 158, 182, 204, 218, 244, 245, 246, 251, 306, 319, 321, 322, 328, 329, 344, 409, 411, 436 |
| FIDELITY | 049, 050, 063, 076, 107, 158, 225, 307, 364, 379 |
| FIDELITY (UK) | 133 |
| FILSAI | 050, 379 |
| FINHER | 359 |
| FINLANDIA | 033, 122, 139, 172, 197, 209, 223, 307, 375, 419 |
| FINLUX | 003, 020, 042, 045, 049, 061, 063, 075, 078, 080, 090, 091, 102, 104, 107, 117, 139, 146, 147, 163, 197, 210, 235, 319, 324, 339, 341, 375, 379, 406, 407, 408, 428, 429, 437 |
| FIRST LINE | 045, 049, 063, 094, 102, 107, 134, 139, 191, 195, 209, 210, 379, 411, 413, 416 |
| FISHER | 018, 041, 050, 056, 065, 069, 102, 104, 107, 117, 139, 143, 156, 172, 189, 206, 209, 320, 324, 379, 408, 414, 416, 421 |
| FLINT | 031, 049, 063, 102, 123, 379, 380 |
| FNR | 045 |
| FORGESTONE | 158 |
| FORMENTI | 090, 107, 113, 139, 307, 324, 379, 407 |
| FORMENTI-PHOENIX | 050, 075, 104, 113, 148, 307 |
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| GEC | 049, 063, 102, 104, 107, 120, 171, 172, 192, 307, 379, 416 |
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| GELOSO | 031, 047, 062, 104, 107, 139, 168, 171, 195, 307, 413 |
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HANTOR 049, 063

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| INTERVISION | 006, 045, 049, 055, 063, 076, 107, 123, 225, 232, 378, 379, 380, 381, 382, 384, 385, 386, 387, 388, 389, 413, 421, 423 |
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| JEC | 141 |
| JET POINT | 365 |
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| KARCHER | 003, 006, 020, 031, 045, 049, 050, 063, 068, 076, 107, 195, 207, 217, 421, 435 |
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| KNEISSEL | 049, 063, 210, 242, 369, 391, 411, 421, 435 |
| KOLSTER | 045, 049, 063, 416 |
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| LUMATRON | 049, 063, 076, 107, 172, 236, 242, 329, 379 |
| LUX MAY | 049, 063, 195 |
| LUXOR | 042, 050, 090, 107, 122, 127, 133, 139, 150, 155, 159, 165, 172, 185, 197, 209, 307, 312, 330, 416, 418, 428, 429 |
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